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GRAPH-BASED SOCIAL MEDIA ANALYSIS

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Modern Algorithms of Cluster Analysis Slawomir Wierzchoń, Mieczysław Kłopotek, 2017-12-29 This book provides the reader with a basic understanding of the formal concepts of the cluster clustering partition cluster analysis etc The book explains feature based graph based and spectral clustering methods and discusses their formal similarities and differences Understanding the related formal concepts is particularly vital in the epoch of Big Data due to the volume and characteristics of the data it is no longer feasible to predominantly rely on merely viewing the data when facing a clustering problem Usually clustering involves choosing similar objects and grouping them together To facilitate the choice of similarity measures for complex and big data various measures of object similarity based on quantitative like numerical measurement results and qualitative features like text as well as combinations of the two are described as well as graph based similarity measures for hyper linked objects and measures for multilayered graphs Numerous variants demonstrating how such similarity measures can be exploited when defining clustering cost functions are also presented In addition the book provides an overview of approaches to handling large collections of objects in a reasonable time In particular it addresses grid based methods sampling methods parallelization via Map Reduce usage of tree structures random projections and various heuristic approaches especially those used for community detection

Policy Practice and Digital Science Marijn Janssen, Maria A. Wimmer, Ameneh Deljoo, 2015-06-03 The explosive growth in data computational power and social media creates new opportunities for innovating the processes and solutions of Information and communications technology ICT based policy making and research To take advantage of these developments in the digital world new approaches concepts instruments and methods are needed to navigate the societal and computational complexity This requires extensive interdisciplinary knowledge of public administration policy analyses information systems complex systems and computer science This book provides the foundation for this new interdisciplinary field in which various traditional disciplines are blending Both policy makers executors and those in charge of policy implementations acknowledge that ICT is becoming more important and is changing the policy making process resulting in a next generation policy making based on ICT support Web 2 0 and even Web 3 0 point to the specific applications of social networks semantically enriched and linked data whereas policy making has also to do with the use of the vast amount of data predictions and forecasts and improving the outcomes of policy making which is confronted with an increasing complexity and uncertainty of the outcomes The field of policy making is changing and driven by developments like open data computational methods for processing data opining mining simulation and visualization of rich data sets all combined with public engagement social media and participatory tools

Black Enterprise ,2000-06 BLACK ENTERPRISE is the ultimate source for wealth creation for African American professionals entrepreneurs and corporate executives Every month BLACK ENTERPRISE delivers timely useful information on careers small business and personal finance

Graph Mining Deepayan Chakrabarti, Christos Faloutsos, 2012 What does the Web

look like How can we find patterns communities outliers in a social network Which are the most central nodes in a network These are the questions that motivate this work Networks and graphs appear in many diverse settings for example in social networks computer communication networks intrusion detection traffic management protein protein interaction networks in biology document text bipartite graphs in text retrieval person account graphs in financial fraud detection and others In this work first we list several surprising patterns that real graphs tend to follow Then we give a detailed list of generators that try to mirror these patterns Generators are important because they can help with what if scenarios extrapolations and anonymization Then we provide a list of powerful tools for graph analysis and specifically spectral methods Singular Value Decomposition SVD tensors and case studies like the famous pageRank algorithm and the HITS algorithm for ranking web search results Finally we conclude with a survey of tools and observations from related fields like sociology which provide complementary viewpoints Table of Contents Introduction Patterns in Static Graphs Patterns in Evolving Graphs Patterns in Weighted Graphs Discussion The Structure of Specific Graphs Discussion Power Laws and Deviations Summary of Patterns Graph Generators Preferential Attachment and Variants Incorporating Geographical Information The RMat Graph Generation by Kronecker Multiplication Summary and Practitioner s Guide SVD Random Walks and Tensors Tensors Community Detection Influence Virus Propagation and Immunization Case Studies Social Networks Other Related Work Conclusions

A Graph Analytics Framework for Knowledge Discovery Feichen Shen, 2016 In the current data movement numerous efforts have been made to convert and normalize a large number of traditionally structured and unstructured data to semi structured data e g RDF OWL With the increasing number of semi structured data coming into the big data community data integration and knowledge discovery from heterogeneous do mains become important research problems In the application level detection of related concepts among ontologies shows a huge potential to do knowledge discovery with big data In RDF graph concepts represent entities and predicates indicate properties that connect different entities It is more crucial to figure out how different concepts are re lated within a single ontology or across multiple ontologies by analyzing predicates in different knowledge bases However the world today is one of information explosion and it is extremely difficult for researchers to find existing or potential predicates to per form linking among cross domains concepts without any support from schema pattern analysis Therefore there is a need for a mechanism to do predicate oriented pattern analysis to partition heterogeneous ontologies into closer small topics and generate query to discover cross domains knowledge from each topic In this work we present such a model that conducts predicate oriented pattern analysis based on their close relationship and generates a similarity matrix Based on this similarity matrix we apply an innovative unsupervised learning algorithm to partition large data sets into smaller and closer topics that generate meaningful queries to fully discover knowledge over a set of interlinked data sources In this dissertation we present a graph analytics framework that aims at providing semantic methods for analysis and pattern discovery from graph data with cross domains Our contributions can be summarized as

follows The definition of predicate oriented neighborhood measures to determine the neighborhood relationships among different RDF predicates of linked data across do mains The design of the global and local optimization of clustering and retrieval algorithms to maximize the knowledge discovery from large linked data i top down clustering called the Hierarchical Predicate oriented K means Clustering ii bottom up clustering called the Predicate oriented Hierarchical Agglomerative Clustering iii automatic topic discovery and query generation context aware topic path finding for a given source and target pair The implementation of an interactive tool and endpoints for knowledge discovery and visualization from integrated query design and query processing for cross do mains Experimental evaluations conducted to validate proposed methodologies of the frame work using DBpedia YAGO and Bio2RDF datasets and comparison of the pro posed methods with existing graph partition methods and topic discovery methods In this dissertation we propose a framework called the GraphKDD The GraphKDD is able to analyze and quantify close relationship among predicates based on Predicate Oriented Neighbor Pattern PONP Based on PONP the GraphKDD conducts a Hierarchical Predicate oriented K Means clustering HPKM algorithm and a Predicate oriented Hierarchical Agglomerative clustering PHAL algorithm to partition graphs into semantically related sub graphs In addition in application level the GraphKDD is capable of generating query dynamically from topic discovery results and testing reachability be tween source target nodes We validate the proposed GraphKDD framework through comprehensive evaluations using DBPedia Yago and Bio2RDF datasets Individual and Collective Graph Mining Danaï Koutra, Christos Faloutsos, 2017-10-26 Graphs naturally represent information ranging from links between web pages to communication in email networks to connections between neurons in our brains These graphs often span billions of nodes and interactions between them Within this deluge of interconnected data how can we find the most important structures and summarize them How can we efficiently visualize them How can we detect anomalies that indicate critical events such as an attack on a computer system disease formation in the human brain or the fall of a company This book presents scalable principled discovery algorithms that combine globality with locality to make sense of one or more graphs In addition to fast algorithmic methodologies we also contribute graph theoretical ideas and models and real world applications in two main areas Individual Graph Mining We show how to interpretably summarize a single graph by identifying its important graph structures We complement summarization with inference which leverages information about few entities obtained via summarization or other methods and the network structure to efficiently and effectively learn information about the unknown entities Collective Graph Mining We extend the idea of individual graph summarization to time evolving graphs and show how to scalably discover temporal patterns Apart from summarization we claim that graph similarity is often the underlying problem in a host of applications where multiple graphs occur e g temporal anomaly detection discovery of behavioral patterns and we present principled scalable algorithms for aligning networks and measuring their similarity The methods that we present in this book leverage techniques from diverse areas such as matrix

algebra graph theory optimization information theory machine learning finance and social science to solve real world problems We present applications of our exploration algorithms to massive datasets including a Web graph of 6.6 billion edges a Twitter graph of 1.8 billion edges brain graphs with up to 90 million edges collaboration peer to peer networks browser logs all spanning millions of users and interactions *Multi-Dimensional Analysis of Graph Data*, 2009

Targeted Graph Mining for Efficient User-Relevant Knowledge Discovery Steven Douglas Harenberg, 2017

Applied Graph Data Science Pethuru Raj, Pushan Kumar Dutta, Peter Han Joo Chong, Houbing Herbert Song, Dmitry A. Zaitsev, 2025-01-27 Applied Graph Data Science Graph Algorithms and Platforms Knowledge Graphs Neural Networks and Applied Use Cases delineates how graph data science significantly empowers the application of data science The book discusses the emerging paradigm of graph data science in detail along with its practical research and real world applications Readers will be enriched with the knowledge of graph data science graph analytics algorithms databases platforms and use cases across a variety of research and topics and applications This book also presents how graphs are used as a programming language especially demonstrating how Sleptsov Net Computing can contribute as an entirely graphical concurrent processing language for supercomputers Graph data science is emerging as an expressive and illustrative data structure for optimally representing a variety of data types and their insightful relationships These data structures include graph query languages databases algorithms and platforms From here powerful analytics methods and machine learning deep learning ML DL algorithms are quickly evolving to analyze and make sense out of graph data As a result groundbreaking use cases across scientific research topics and industry verticals are being developed using graph data representation and manipulation A wide range of complex business and scientific research requirements are efficiently represented and solved through graph data analysis and Applied Graph Data Science Graph Algorithms and Platforms Knowledge Graphs Neural Networks and Applied Graph Data Science gives readers both the conceptual foundations and technical methods for applying these powerful techniques Provides comprehensive coverage of the emerging paradigm of graph data science and its real world applications Gives readers practical guidance on how to approach and solve complex data analysis problems using graph data science with an emphasis on deep analysis techniques including graph neural networks GNNs machine learning algorithms graph databases and graph query languages Covers extended graph models such as bipartite directed graphs of place transition nets graphs with dynamical processes defined on them Petri and Sleptsov nets and graphs as programming languages Presents all the key tools and techniques as well as the foundations of graph theory including mathematical concepts research and graph analytics [Graph Algorithms for Data Science](#) Tomaž Bratanic, 2024-02-27 Graph Algorithms for Data Science teaches you how to construct graphs from both structured and unstructured data You ll learn how the flexible Cypher query language can be used to easily manipulate graph structures and extract amazing insights Graph Algorithms for Data Science is a hands on guide to working with graph based data in

applications It s filled with fascinating and fun projects demonstrating the ins and outs of graphs You ll gain practical skills by analyzing Twitter building graphs with NLP techniques and much more These powerful graph algorithms are explained in clear jargon free text and illustrations that makes them easy to apply to your own projects *Graph-based Modeling, Analysis, and Verification* Jörg Kreiker,2011 *New Results in Graph-based Knowledge Representation* Daniela Udrea,2015

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